

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	116	(laser with beam with (smooth\$4 polish\$4) near2 surface).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 14:48
L2	8	(laser with beam with (smooth\$4 polish\$4) near2 surface with \$3melt\$4).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 14:49
L3	33	("4122240" "4455893" "4830265").PN. OR ("4455893" "5068514" "6143587").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/23 14:54
L4	4	3 and laser same (smooth\$4 polish\$4) with surface with \$3melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 14:55
L5	110	("4122240" "4343877" "4455893" "4661676" "4731516" "4830265" "4832798" "5068514" "5178158" "5203777" "5226101" "5246530" "5294812" "5344425" "5370691" "5385152" "5421955" "5496422" "5549552" "5556413" "5607444" "5628787" "5630840" "5632771" "5639278" "5656186" "5679470" "5718724" "5725549" "5725570" "5725572" "5733301" "5733326" "5741327" "5746691" "5780807" "5788558" "5800511" "5824042" "5824045" "5824077" "5836964" "5836969" "5852277" "5855802" "5855856" "5868777" "5902475" "5916263" "5917239" "5925069" "5938696" "5968068" "5980553" "6004279" "6004328" "6004347" "6013854"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/23 14:58

		"6022374" "6023040" "6027528" "6043452" "6086455" "6099561" "6110191" "6143587" "6342067"). PN. OR ("4455893" "5068514" "6400037" "6492615"). URPN.				
L6	6	5 and laser same (smooth \$4 polish\$4) with surface with \$3melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 14:59
L7	3	6 not 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 14:59
L8	140	("4015100" "4122240" "4243433" "4343832" "4348263" "4390392" "4432855" "4455893" "4661676" "4663826" "4674176" "4731516" "4830265" "4832798" "5068514" "5178158" "5203777" "5226101" "5246530" "5344425" "5370691" "5385152" "5421955" "5549552" "5556413" "5607444" "5628787" "5630840" "5632771" "5639278" "5656186" "5679470" "5718724" "5725549" "5725570" "5725572" "5733301" "5733326" "5741327" "5746691" "5780807" "5788558" "5800511" "5824042" "5824045" "5824077" "5836964" "5836969" "5852277" "5855802" "5858556" "5868777" "5902475" "5916263" "5925069" "5938696" "5968068" "5980553" "6004279" "6004328" "6004347" "6013854" "6022374" "6023040" "6027528" "6043452" "6086455" "6099561" "6110191" "6342067"). PN. OR ("4455893" "4731516" "4832798"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/23 15:02

		"5068514" "6143587" "6492615").URPN.				
L9	44	8 and laser same (smooth \$4 polish\$4 melt\$3) near2 surface	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:03
L10	3	9 and (smooth\$4 polish\$4 melt\$3) with repeat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:04
L11	10	8 and laser with (smooth \$4 polish\$4) with (evaporat\$4 ablat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:08
L12	10	8 and laser with (smooth \$4 polish\$4 dither\$4) with (evaporat\$4 ablat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:09
L13	1093	laser with (smooth\$4 polish\$4 dither\$4) with (evaporat\$4 ablat\$4) not 12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:09
L14	0	13 and laser same (smooth\$4 polish\$4) with repeat\$4 near4 \$3melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:11
L15	0	13 and laser same (smooth\$4 polish\$4) with repeat\$4 with \$3melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:11
L16	0	13 and (smooth\$4 polish \$4) with repeat\$4 with \$3melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:11
L17	4	13 and repeat\$4 with \$3melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:11

L18	91	radiation with (smooth\$4 polish\$4 dither\$4) with (evaporat\$4 ablat\$4) not 12 not 13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:14
L19	0	18 and repeat\$4 with \$3melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:14
L20	27	18 and repeat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:14
L21	6	18 and repeat\$4 with (laser smooth\$4 polish\$4 dither\$4 \$3melt\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:15
L22	5	18 and first with (second subsequent) with (laser smooth\$4 polish\$4 dither \$4 \$3melt\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:16
L23	23	(US-20060081573-\$).did. or (US-4100393-\$ or US-4122240-\$ or US-5601737-\$ or US-4968383-\$ or US-4229232-\$ or US-5232674-\$ or US-4447275-\$ or US-4451299-\$ or US-4401726-\$ or US-5997377-\$ or US-6552302-\$ or US-5072092-\$ or US-6143587-\$ or US-4455893-\$ or US-5068514-\$ or US-6492615-\$ or US-6400037-\$ or US-4731516-\$ or US-4832798-\$ or US-6043452-\$ or US-4015100-\$).did. or (JP-2000285737-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2009/04/23 15:19
L24	14	"148"/\$.ccls. and (laser with (smooth\$4 polish\$4)). cfm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 15:34
S1	1	(smoothing polishing) with oxidation near resista \$5 same laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:18

S2	8	smoothing with oxidation near resista\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:19
S3	0	polishing with oxidation near resista\$5 same laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:19
S4	116	polishing with oxidation near resista\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:19
S5	124	S2 S4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:19
S6	0	S5 and melt\$4 near4 surface	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:20
S7	0	S5 and laser with \$3melt \$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:20
S8	3	S5 and \$3melt\$4 with surface	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:20
S9	4197	laser with surface near2 (polish\$5 smooth\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:25
S10	369	laser with surface near2 treat\$5 and treat\$5 near5 (smooth\$5 polish\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:25
S11	4474	S9 S10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:26

S12	271	S11 and surface near3 (tool mold mould)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:27
S13	34	S12 and laser near5 \$4melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:27
S14	3	S13 and \$4melt\$4 near5 (deep\$4 depth)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:31
S15	0	("2006/0081573").URIPN.	USPAT	OR	ON	2008/12/15 11:33
S16	2	"20060081573"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:36
S17	1	S16 and surface same material	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:37
S18	1300	(metal\$4 steel titanium plastic nonmetal\$4 non? metal\$4) with laser with (smooth\$4 polish\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:40
S19	3	S18 and laser with \$4melt \$4 and (micro?rough\$7 microrough\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:41
S20	63	S18 and laser with \$4melt \$4 and surface near2 rough\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:44
S21	2	S18 and laser with \$4melt \$4 with micron	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:47

S22	5	S18 and \$4melt\$4 with micron	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:47
S23	1	("4122240").PN.	USPAT; USOCR	OR	OFF	2008/12/15 11:48
S24	1	S23 and (deep\$4 depth)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:52
S25	0	S23 and repeat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:53
S26	0	S23 and \$4melt\$4 with (multiple plural\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:53
S27	0	S23 and (multiple plural \$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:53
S28	1	S23 and \$4melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 11:54
S29	2	S16 and laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:04
S30	42	S20 and (nd yag co co2 diode) with laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:06
S31	42	S30 and (melt\$4 ablat\$4 evaporat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:08

S32	42	S30 and (melt\$4 ablat\$4 evaporat\$4) with laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:08
S33	30	S30 and (melt\$4 ablat\$4 evaporat\$4) with laser same (smooth\$4 polish \$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:09
S34	2	S16 and structur\$4 near3 depth	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:15
S35	1	S16 and first near3 depth	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:16
S36	13	S18 and laser with \$4melt \$4 and surface near2 rough\$7 and melt\$4 with (deep\$4 depth)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:36
S37	0	S18 and laser with \$4melt \$4 and surface near2 rough\$7 and melt\$4 with (deep\$4 depth) with (micron mil millimet\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:36
S38	4	S18 and laser with \$4melt \$4 and surface near2 rough\$7 and melt\$4 with (deep\$4 depth) and (melt \$4 depth deep\$4) with (micron mil millimet\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:37
S39	1	S23 and mil	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:46
S40	0	S23 and melt\$4 with micron	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:52
S41	5	S18 and melt\$4 with micron	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:52

S42	18	S18 and preheat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 12:53
S43	82	("3856513" "3871836" "3926682" "4000011"). PN. OR ("4122240"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 12:55
S44	10	S43 and preheat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 12:55
S45	7	S43 and pulse with duration	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 12:58
S46	5	((("5232674") or ("4229232") or ("4122240") or ("4968383") or ("6670575")).PN.	USPAT; USOCR	OR	OFF	2008/12/15 13:02
S47	4	S46 and (pulse\$2 continuous) with laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 13:06
S48	0	S46 and preheat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 13:14
S49	4	S46 and heat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 13:14
S50	3	S20 and preheat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/15 13:17
S51	10	S43 and preheat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:18
S52	3	S46 and gas	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:22
S53	17	S43 and (line rectang\$5) near5 beam	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:29
S54	0	S46 and (line rectang\$5) near5 beam	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:29
S55	0	S46 and selectiv\$7	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:40
S56	12	S20 and selectiv\$7	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:40

S57	1	S20 and selectiv\$7 with \$4melt\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:41
S58	10	S18 and selectiv\$7 with \$4melt\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:41
S59	218	laser with selectiv\$7 near \$4melt\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:42
S60	195	laser with selectiv\$7 adj \$4melt\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:43
S61	0	laser with selectiv\$7 adj \$4melt\$4 with retain\$4 with structure	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:43
S62	1	laser with selectiv\$7 adj \$4melt\$4 with retain\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:43
S63	0	laser with remelt\$4 adj4 (multiple plural\$4) adj time	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:49
S64	4	laser with melt\$4 adj4 (multiple plural\$4) adj time	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/15 13:50
S65	9	(US-5601737-\$ or US-4968383-\$ or US-4229232-\$ or US-5232674-\$ or US-4447275-\$ or US-4451299-\$ or US-4401726-\$ or US-5997377-\$ or US-6552302-\$). did.	USPAT	OR	ON	2009/04/21 14:29
S66	3	S65 and (evaporat\$4 ablat \$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/21 14:30
S67	2	"20060081573"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/21 14:59
S68	2	S67 and continuous same puls\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/21 14:59
S69	1	S67 and structur\$4 adj depth	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/21 15:04

S70	20	laser with evaporat\$4 with roughness	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/21 15:20
S71	0	"5834071.pn.n" and laser with evaporat\$4 with roughness	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/21 15:26
S72	0	"5834071.pn." and laser with evaporat\$4 with roughness	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/21 15:27
S73	1	("5834071").PN.	USPAT; USOCR	OR	OFF	2009/04/21 15:27
S74	1	S73 and laser with evaporat\$4 with roughness	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/21 15:27
S75	2	S67 and structur\$4 with depth	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/21 15:38
S76	2	"20060081573"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 10:30
S77	2	S76	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 10:30
S78	2	S76 and remelt\$4 with (structur\$4 depth deep\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 10:31
S79	2	S76 and pulse with duration	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 10:45

S80	1	S76 and second adj3 (treatment step)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 10:50
S81	2	S76 and pulse adj2 (duration length)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 10:53

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